

EM 2002 Mid Year Review

Chicago Operations Office

Waste
Management/Pollution
Prevention
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Program Overview

Objectives

- Review CH progress FY 2002 Waste Disposition and Pollution Prevention Programs
- Discussion of Strategies and Initiatives EM Liability Waste Disposition, Nuclear Materials, Shipment Security, Lessons Learned, Waste Developments and Strategies, Future of Pollution Prevention



Legacy Waste

- Remaining EM legacy waste at ANL-E and BNL is aggressively being worked off.
- ANL-E Transuranic Waste
 - ARG will discuss CH-TRU progress
 - RH-TRU path forward is still under development
 - Transfer to INEEL or Hanford
 - Perform WIPP characterization at ANL-E
 - WIPP WAC for RH is not final
- BNL "EM Liability Waste" workoff is progressing.
 - Only 7 mixed waste items remain, 5 of which should be worked off by end of 3rd quarter.
 Pathway for H3 ampoules still being investigated.
 - Path forward for most of the remaining 53 LLW items.
- Additional non-EM "old waste" at ANL-E, ANL-W, BNL, and Fermi
 - Need continued assistance from EM-50 TMWFA Waste Elimination Team (WET) to find disposition pathways. CH recommends that EM and SC establish dialog to ensure that WET is retained as a complex-wide resource.



Nuclear Materials Initiatives

- CH sites have considerable SNM, accountable materials, isotopes, TRU sources, and other materials that are costly to disposition, or have poorly defined pathways.
- EM nuclear materials are minimal, but have prooved to be very difficult to disposition
 - ANL-E CP5 Converter Tubes, Janus Plates, and EM SNF samples
 - BNL HWMF sources
- CH initiative in working with NISSMG, other Nuclear Materials groups vendors, and other DOE sites to develop paths forward.
- NISSMG is providing ANL-E site-wide materials management plans that will provide suggested paths forward for transuranic sources, SNM, accountable materials, beryllium, EM nuclear materials, and aid all CH labs.
- CH fully supports continuation of the NISSMG, OSRP, and NMFA because otherwise the materials would remain in storage due to lack of pathways.
 - CH would like to expand NISSMG support to include other labs
 - Concern that current OSRP budget does not support actinide source disposition for BNL
 - CH recommends that EM-30 send a strong message of support to EM management that the nuclear materials groups remain intact and available.

Shipment Security

Since September 11, CH has been using a protocol to ensure that all waste and material shipments are secure and safe.

Total of 165 shipments to date from five CH sites: about 2/3 were EM shipments, most of remainder were SC.

All shipments have safety checklists, driver credentials checked out, communication maintained – no major problems to date.

All information on shipments available to management and emergency operations.



"Lessons Learned"

- Series of informal lessons learned, heads-up and safety watches has been effective in alerting CH sites of potential waste related concerns.
- Series has included information on suspect bolts, non-conforming waste, truck safety inspections, and safe cargo restraint practices.
- Direct e-mails to Area Offices and sites are effective in making sure that the right people are aware of potential problems or good practices.
- Indicators are that we have a good trend in safety related incidents relative to the same time period last year indication that sites are aware of the need to manage waste compliantly and safely.
 - 3 EM occurrences through May 2002
 - 17 EM occurrences for the same period a year ago



Waste Developments and Strategies

- Over the next few years, CH EM LLW and MLLW from remediation and D&D could potentially exceed 1.5 million cubic feet. Several strategies for cost-effective disposition being developed:
 - 5400.5 Restricted Release of soil and debris with residual radioactivity would be useful for future ANL-E D&D and BNL soils.
 - Working with Hanford and NTS on WAC standardization, decreasing costs for disposal (direct funding of Hanford burial grounds), rail access to Hanford, gaining access to NTS as backup.
 - Looking at establishment of turnkey mixed waste contact for CH to reduce costs for macroencapsulation and stabilization.
 - Working with EM-20 on complex-wide cost analyses for disposal result probably will be easing of some 435.1 requirements and quicker use of commercial options.

Concerns:

- lowa fee on truck and rail is likely a precurser to other States imposing fees
- Vendor treatment market is still unstable following collapse of ATG. Other vendors are also strugling.
- Potential Utah tax on Envirocare disposal?
- Continued metal recycle suspension: future recycle for uncontaminated metals uncertain.
- Non-EM challenge:
 - SC is eliminating FY 2003 direct funding for waste management
 - Post-EM waste coordination ensuring communication.



Pollution Prevention

- FY 2002 is the last year of EM P2 Funding
 - Less than \$400K distributed to CH sites
 - P2 program reporting being moved to EH
 - Unclear if their will be Departmental coordination on policy and strategies.
 - EM has not determined if their will be a P2 group or strategy for its program
- CH P2 Program intends on continuation of 3-pronged approach to reduce waste management costs:
 - Reduce Cleanup Costs Through Waste Reduction
 - Use minimal processing and disposal
 - Increase Safety/Decrease Costs of Business through Routine Waste Reduction
 - Promote PWAs, increase accountability, target waste classes
 - Eliminate Future Environmental Liability
 - Green design, infrastructure life-cycle cost reduction